HOW TO RUN CASE IT SOFTWARE ON A MAC (OSX 10.8 OR HIGHER)

Update 1/30/20: These instructions show how to run on Case It on Mojave 10.14 or earlier Mac operating systems. To run Case It on Catalina (10.15), see these instructions. Case It also runs on Windows 10 or earlier Windows operating systems. Case It v7.exe is a Windows application*, but can easily be run on Mac OSX after following the steps below. These steps only have to be done once, and after that Case It v7.exe (or Case It v6.07.exe) will run on a Mac the same way that it does on Windows.

- * To run Case It on Windows, simply extract the Case It v7PC.zip file and open the executable file as shown in Step 12 below. It is not necessary to install Wine and XQuartz to run Case It on Windows.
- 1. Download two files separately from the <u>Case It web site</u>: one file called "Wine Stable 203 and XQuartz 2711.zip", and a second file called "Case it v7 PC.zip".



IMPORTANT: Use *only* the version of Wine Stable (2.0.3) available at the Case It web site.

- 2. First, double-click on "Wine Stable 203 and XQuartz 2711.zip", and open the extracted folder.
- 3. Next, double-click on XQuartz-2.711.dmg as shown below:



4. The XQuartz package will appear. Double click on the package:



5. You may need to provide an administrative password to install XQuartz.

		XQuartz-2.7.11	
	Installer is t	rying to install new software.	
Introduc	User Name:	іМасі5]
Read Me	Password:		oftware
License			r will be
Destinat		Cancel Install Software)
Installat			
Installation			
Summary			

Be patient, as it may seem like the installer is hung up, but it will finish after several minutes.

	🤿 Install XQuartz 2.7.11	
 Introduction Read Me License Destination Select Installation Type Installation Summary 	Installing XQuartz 2.7.11 Writing files Install time remaining: About 2 minutes	
	Go Back C	Continue

6. After XQuartz is installed, double-click file 'winehq-stable-2.0.3.pkg'



7. IMPORTANT! During the installation process, <u>click the '64-bit support' check box</u>, otherwise Case It will not open properly.

• • •	💝 Install Wine Stable		
	Custom Install on "Macintosh HD"		
	Package Name	Action	Size
Introduction	Dependencies	Install	48.4 MB
Destination Select	✓ 32 bit support	Install	188.9 MB
Installation Type	✓ 64 bit support (optional)	Install	234.1 MB
 Installation 	×		
Summary			
	Space Required: 471.5 MB	Remainir	ng: 486.39 GB
Ģ	Space Required: 471.5 MB Support for running 64 bit application	Remainir ns in Wine.	ng: 486.39 GB
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	Space Required: 471.5 MB Support for running 64 bit application	Remainir ns in Wine. Go Back	ng: 486.39 GB

8. It may be necessary to type in the administrative password to install Wine Stable.

	Installer is t	rying to install new software.	
	Enter your pas	sword to allow this.	
Introduc	User Name:	iMaci5	
Destinat	Password:		
Installati			
Installat		Cancel Install Software	
Summar			

9. Once Wine Stable is installed, double-click the "Case It v7 PC.zip" file (the second file you downloaded) to unzip it.



10. Right-click on the Case It v7.exe file, and select "Get Info" from the drop-down menu that appears:

	Case It v7 PC	2	
$\langle \rangle$			Q Search
Favorites	Name	^	Date Modified
All My Files	Case It v7.exe	Open	
Applications	Cases	Open With	► PM PM
Google Drive	Help.txt	Move to Trash	PM
Desktop	HelpDNA.txt	Get Info	5 AM
Documents	HELPMESSAGES.TXT	Rename	1 AM

11. Select "Wine Stable.app" as the default to open Case It, and use the "Change All" button to open all similar documents with Wine Stable. This is because Case It works with the PC version of MEGA bioinformatics software. This is the only time you will have to do this.

			Cas	se It v7.exe Info	
		Ý	Case It v7.exe Modified: Today, 2:0	6 PM	26.7 MB
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This change	e will apply to all documents with extension	Case	lt v7.exe		
.exe .	Case It v7.exe Modified: Today, 2:06 PM Add Tags ▼ General: Kind: Windows executable Size: 26,705,680 bytes (26.7 M & Where: Macintosh HD + Users + w10 v7 PC 2 Created: Today, 2:06 PM Modified: Today, 2:06 PM Mod				
		▼ Oper	ments: n with:		e Write Write Write Write
			Wine Stable.app (defa	ault)	٥
		Use th	nis application to oper	n all documents like this or	ie.
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12. Double-click on the Case It v7.exe executable file, which is inside the extracted Case It folder (the file may have a name different than the one shown below, such as Case It v7.0.2).

	Case It v7 PC	Q Search
Favorites	Name	Date Modified
AirDrop	Case It v7.exe	Today at 9:19
	Cases	Today at 2:31
Recents	ases.txt	Aug 3, 2017 at
iCloud Drive	Help.txt	Oct 29, 2017 a
Applications	HelpBioinformatics.txt	Oct 29, 2017 a
	HelpDNA.txt	Oct 29, 2017 a
Desktop	HELPMESSAGES.TXT	Oct 29, 2017 a
Documents	HelpMicroarray.txt	Nov 5, 2017 at

13. Before Case It opens, a dialog box will appear asking to install Mono. Click the Cancel button, as Mono is not necessary to run Case It.

		Case It v7 PC				
		<u>~</u>](♣~)(≜		Q 5	Search	
Favorites	Name			^	Date N	odified
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	🕨 🕨 📄 Case	S			Today	at 2:31
Recents	ases	s.txt			Aug 3,	2017 a
C iCloud Driv		Wine Mono Ir	nstaller			2017
Application						2017
Desktop	Wine could not find a applications to work	a Mono package which correctly. Wine can a	th is needed for .N automatically down	ET nload an	d	2017
	install it for you.	contocoly. Mino cont	Second comy down	inoda an		2017
	Note: it is recommen	ided to use your dist	ribution's packages	s instead	l. See	2017 a
U Downloads	http://wiki.winehq.or	<u>g/Mono</u> for details.				2017
Devices						2017 a
Remote Dis			Cancel	Inst	all	2017 a
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XQuartz ≜						

14. Another screen will appear asking to install Gecko. Click the Cancel button, as Gecko is not necessary to run Case It.



15. Case It will now open to the first splash screen. <u>Immediately close Case It by clicking the red close button</u> <u>in the upper left-hand corner</u>, and then restart it by double clicking on the Case It v7.exe file. This is the only time you will have to do this.



16. After Case It reopens, click on the 'Click here to begin' button and the second screen will appear: Click the 'Click to continue' button after reading the information on this screen.



17. You will then see the Data Screen. Consult information in the Help Window (and online tutorials at <u>www.caseitproject.org</u>) for instructions on how to run the various analyses of Case It.



Note: This screen shot shows Case It v7.exe running on High Sierra (at this writing the latest version of Mac OSX).

18. As an example, the screen below shows the appearance of the Data Screen after running a SNP Microarray analysis. Note: The best way to manage the various windows is to use the Navigation Bar at the bottom of the Data Screen. You can make windows appear and disappear by clicking buttons on this bar.

DNA chip navi	Case It	v7								
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		ISA Dotblot	96-well PCR	DNA chip q	PCR					ar in this window, by topic.
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	E	>rs15643/4A 4553 C	>rs2286690A 1121	>rs2928432A 5392 A	>rs10/5/2/4A 10122 AA	>rs191226UA 8499 CC	>rs1//21936A 9785 AA	>rs2919394A 8964 AA	>rs564991A 3958 A	
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SNP chip Select method Load Run Options Light Labels A Load Clex	ar	This c	hip: Jonathan	,		, ,	Probe:			
Protein Antibody [DNA] Primer Chip (gPCR Protein Enzyme Cut DN	A				R	ange and length o	f selection	▼		
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19. See the "Tutorial" section of the Case It home page for detailed instructions on the use of Case It v7.exe, in PDF, Powerpoint, and screencast video format:

http://www.caseitproject.org/tutorials-2

Acknowledgements for Wine (www.winehq.org) and XQuartz (www.xquartz.org)

Copyright (c) 1993-2017 the Wine project authors (see the file <u>AUTHORS</u> for a complete list). Wine is free software; you can redistribute it and/or modify it under the terms of the <u>GNU Lesser General Public License</u> as published by the Free Software Foundation. The XQuartz project is an open-source effort to develop a version of the <u>X.Org X Window System</u> that runs on OS X. Together with supporting libraries and applications, it forms the X11.app that Apple shipped with OS X versions 10.5 through 10.7.